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(54) Title: A PHARMACEUTICAL COMPOSITION CONTAINING AN ACTIVE AGENT HAVING THE EFFECT OF DIGI-TALIS AND A COMP PHOSPHODIESTERASE INHIBITOR

(57) Abstract: The invention refers to a cardiotonic pharmaceutical composition having enhanced therapeutical width. The pharmacoutical composition of the invention comprises (a) an active ingredient having the effect of digitalis and (b) a cOMP phosphodiesterate inhibitor and one or more conventional currier(s).



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Amended page

1/a

Clement et al. described a study in which the effect of a combined cicletanine and digoxin therapy on plasma digoxin level was investigated [Clement, D.L. et al.: "Lack of Effect of Cicletanine on Plasma Digoxin Levels", Int. J. Clin. Pharm. Res., 8(1), 9-11 (1988)]. The study performed on six patients did not reveal any significant change in plasma digoxin concentration, however, stated that the combined treatment was well tolerated.

Bukoski et al. investigated the vascular effect of cicletanine [Bukoski, R.D. et al.: "Vascular actions of cicletanine", Archives des Maladies du Coeur et des Vaisseaux, <u>82(4)</u>, 45-50 (1989)]. Cicletanine induced relaxation of vessels, and the relaxation was not inhibited in case of vessels pretreated with ouabain, moreover, at lower doses, a slight potentiation of the relaxation could be observed.

The literature data do not hint at any influence of phosphodiesterase inhibitors on the arrhythmogenic effect of digitalis glycosides. 5

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Claims:

- 1. Use of a cGMP phosphodiesterase inhibitor for the preparation of a pharmaceutical composition to eliminate the emergence of arrhythmogenic side effects of a cardiotonic therapy with a digitalis glycoside or digitaloide.
- 2. The use of Claim 1 in which the cGMP phosphodiesterase inhibitor is cicletarine, vinpocetine, sildenafil or zaprinast or, if chemically possible, a pharmaceutically suitable acid addition salt thereof.
- 3. The use of Claim 2 in which the cGMP phosphodiesterase inhibitor is cicletanine or a pharmaceutically suitable acid addition salt thereof.
- 4. A method for reducing the dose of a digitalis glycoside or digitaloide required for cardiotonic therapy in which a patient being in need of a cardiotonic treatment with a digitalis glycoside or digitaloide is treated, in addition to the digitalis glycoside or digitaloide, also with a cGMP phosphodiesterase inhibitor.

TOTAL P.05

INTERNATIONAL SEARCH REPORT

Int onal Application No PCT/HU2004/000036

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A. CLASSI IPC 7	A61K31/58 A61K31/50 A61K31 A61P9/06 A61P9/04	/49 A61K31/40	A61K31/41	
According to	to International Patent Classification (IPC) or to both national classi	ification and IPC		
B. FIELDS SEARCHED				
IPC 7				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, EMBASE, MEDLINE, CHEM ABS Data				
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.	
Х	CLEMENT, D. L. ET AL.: "Lack of Effect of Cicletanine on Plasma Digoxin Levels" INTERNATIONAL JOURNAL OF CLINICAL PHARMACOLOGY RESEARCH, vol. 8, no. 1, 1988, pages 9-11,		1-4	
_	XP008033838 abstract			
X	BUKOSKI, R. D. ET AL.: "Vascular actions of cicletanine" ARCHIVES DES MALADIES DU COEUR ET DES VAISSEAUX, vol. 82, no. 4, 1989, pages 45-50, XP008033902 abstract		1-4	
Forest		-		
	her documents are listed in the continuation of box C.	Patent family members	are listed in annex.	
Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance.		or priority date and not in c	*T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
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INTERNATIONAL SEARCH REPORT

mational application No. PCT/HU2004/000036

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
Although claim 8 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.			
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:			
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.			
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on Protest The additional search fees were accompanied by the applicant's protest.			
No protest accompanied the payment of additional search fees.			